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FIG. 1a

FIG. 1	FIG. 1a
	FIG. 1b

Sequence of the PCV Imp1011-48121 isolate (SEQ ID No. 1)

1 AATTCAACCT TAACCTTTCT TATTCTGTAG TATTCAAAGG GCACAGAGCG  
51 GGGGTTTGAG CCCCTCCTG GGGGAAGAAA GTCATTAATA TTGAATCTCA  
101 TCATGTCCAC CGCCAGGAG GCGGTTCTGA CTGTGGTTCG CTTGACAGTA  
151 TATCCGAAGG TGCGGGAGAG GCGGGTGTG AAGATGCCAT TTTTCCTTCT  
201 CCAGCGGTAA CGGTGGCGGG GGTGGACGAG CCAGGGGCGG CGGCGGAGGA  
251 TCTGGCCAAG ATGGCTGCGG GGGCGGTGTC TTCTTCTCCG GTAACGCCTC  
301 CTTGGATACG TCATATCTGA AAACGAAAGA AGTGCCTGT AAGTATTACC  
351 AGCGCACTTC GGCAGCGGCA GCACCTCGGC AGCACCTCAG CAGCAACATG  
401 CCGAGCAAGA AGAATGGAAG AAGCGGACCC CAACCCATA AAAGGTGGGT  
451 GTTCACTCTG AATAATCCTT CCGAAGACGA GCGCAAGAAA ATACGGGATC  
501 TTCCAATATC CCTATTTGAT TATTTTATTG TTGGCGAGGA GGGTAATGAG  
551 GAAGGACGAA CACCTCACCT CCAGGGGTTC GCTAATTTTG TGAAGAAGCA  
601 GACTTTTAAT AAAGTGAAGT GGTATTTGGG TGCCCGCTGC CACATCGAGA  
651 AAGCGAAAGG AACAGATCAG CAGAATAAAG AATACTGCAG TAAAGAAGGC  
701 AACTTACTGA TGGAGTGTGG AGCTCCTAGA TCTCAGGGAC AACGGAGTGA  
751 CCTGTCTACT GCTGTGAGTA CTTGTTGGA GAGCGGGAGT CTGGTGACCG  
801 TTGCAGAGCA GCACCTGTA ACGTTTGTCA GAAATTTCCG CGGGCTGGCT  
851 GAACTTTGA AAGTGAGCGG GAAAATGCAG AAGCGTGATT GGAAGACTAA  
901 TGTacACGTC ATTGTGGGGC CACCTGGGTG TGGTAAAAGC AAATGGGCTG  
951 CTAATTTTGC AGACCCGGAA ACCACATACT GGAAACCACC TAGAAACAAG  
1001 TGGTGGGATG GTTACCATGG TGAAGAAGTG GTTGTATTG ATGACTTTTA  
1051 TGGCTGGCTG CCCTGGGATG ATCTACTGAG ACTGTGTGAT CGATATCCAT  
1101 TGA CTGTAGA GACTAAAGGT GGAAGTGTAC CTTTTTTGGC CCGCAGTATT  
1151 CTGATTACCA GCAATCAGAC CCCGTTGGAA TGGTACTCCT CAACTGCTGT  
1201 CCCAGCTGTA GAAGCTCTTT ATCGGAGGAT TACTTCCTTG GTATTTTGGGA

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FIG. 1b

FIG. 1	FIG. 1a
	FIG. 1b

1251 AGAATGCTAC AGAACAATCC ACGGAGGAAG GGGGCCAGTT CGTCACCCCTT  
1301 TCCCCCEAT GCCCTGAATT TCCATATGAA ATAAATTACT GAGTCTTTTT  
1351 TATCACTTCG TAATGGTTTT TATTATTCAT TAAGGGTTAA GTGGGGGGTC  
1401 TTAAAGATTA AATTCTCTGA ATTGTACATA CATGGTTACA CGGATATTGT  
1451 ATTCCTGGTC GTATATACTG TTTTCGAACG CAGTGCCGAG GCCTACGTGG  
1501 TCtACATTTT CAGCAGTTTG TAGTCTCAGC CACAGCTGGT TTCTTTTGTT  
1551 GTTTGGTTGG AAGTAATCAA TAGTGGAATC TAGGACAGGT TTGGGGGTAA  
1601 AGTAGCGGGA GTGGTAGGAG AAGGGCTGGG TTATGGTATG GCGGGAGGAG  
1651 TAGTTTACAT AGGGGTCATA GGTGAGGGCT GTGGCCTTTG TTACAAAGTT  
1701 ATCATCTAGA ATAACAGCAC TGGAGCCCAC TCCCCTGTCA CCCTGGGTGA  
1751 TCGGGGAGCA GGGCCAG

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FIG. 2a

FIG. 2	FIG. 2a
	FIG. 2b

Sequence of the PCV Imp1011-48285 isolate (SEQ ID No. 2)

1 AATTCAACCT TAACCTTTCT TATTCTGTAG TATTCAAAGG GCACAGAGCG  
51 GGGGTTTGAG CCCCTCCTG GGGGAAGAAA GTCATTAATA TTGAATCTCA  
101 TCATGTCCAC CGCCAGGAG GCGGTTTGA CTGTGGTTCG CTTGACAGTA  
151 TATCCGAAGG TGCGGGAGAG GCGGGTGTG AAGATGCCAT TTTTCCTTCT  
201 CCAGCGGTAA CGGTGGCGGG GGTGGACGAG CCAGGGGCGG CGGCGGAGGA  
251 TCTGGCCAAG ATGGCTGCGG GGGCGGTGTC TTCTTCTCCG GTAACGCCTC  
301 CTTGGATACG TCATATCTGA AAACGAAAGA AGTGCGCTGT AAGTATTACC  
351 AGCGCACTTC GGCAGCGGCA GCACCTCGGC AGCACCTCAG CAGCAACATG  
401 CCCAGCAAGA AGAATGGAAG AAGCGGACCC CAACCCATA AAAGGTGGGT  
451 GTTCACTCTG AATAATCCTT CCGAAGACGA GCGCAAGAAA ATACGGGATC  
501 TTCCAATATC CCTATTTGAT TATTTTATG TTGGCGAGGA GGGTAATGAG  
551 GAAGGACGAA CACCTCACCT CCAGGGGTTC GCTAATTTTG TGAAGAAGCA  
601 GACTTTTAAT AAAGTGAAGT GGTATTTGGG TGCCCGCTGC CACATCGAGA  
651 AAGCGAAAGG AACAGATCAG CAGAATAAAG AATACTGCAG TAAAGAAGGC  
701 AACTTACTGA TGGAGTGTGG AGCTCCTAgA TCTCagGGAC AACGGAGTGA  
751 CCTGTCTACT GCTGTGAGTA CCTTGTGGA GAGCGGGAGT CTGGTGACCG  
801 TTGCAGAGCA GCACCCTGTA ACGTTTGTCA GAAATTTCCG CGGGCTGGCT  
851 GAACTTTTGA AAGTGAGCGG GAAAATGCAG AAGCGTGATT GGAAGACTAA  
901 TGTACACGTC ATTGTGGGGC CACCTGGGTG TGGTAAAAGC AAATGGGCTG  
951 CTAATTTTGC AGACCCGGAA ACCACATACT GGAAACCACC TAGAAACAAG  
1001 TGGTGGGATG GTTACCATGG TGAAGAAGTG GTTGTTATTG ATGACTTTTA  
1051 TGGCTGGCTG CCCTGGGATG ATCTACTGAG ACTGTGTGAT CGATATCCAT  
1101 TGAAGTAGA GACTAAAGGT GGAAGTGTAC CTTTTTGGC CCGCAGTATT  
1151 CTGATTACCA GCAATCAGAC CCCGTTGGAA TGGTACTCCT CAACTGCTGT  
1201 CCCAGCTGTA GAAGCTCTTT ATCGGAGGAT TACTTCCTTG GTATTTTGA

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FIG. 2b

FIG. 2	FIG. 2a
	FIG. 2b

1251 AGAATGCTAC AGAACAATCC ACGGAGGAAG GGGGCCAGTT CGTCACCCCTT  
1301 TCCCCCCCAT GCCCTGAATT TCCATATGAA ATAAATTACT GAGTCTTTTT  
1351 TATCACTTCG TAATGGTTTT TATTATTCAT TAAGGGTTAA GTGGGGGGTC  
1401 TTTAAGATTA AATTCTCTGA ATTGTACATA CATGGTTACA CGGATATTGT  
1451 ATTCCTGGTC GTATATACTG TTTTCGAACG CAGTGCCGAG GCCTACGTGG  
1501 TCTACATTTT CAGTAGTTTG TAGTCTCAGC CACAGCTGAT TTCTTTTGTT  
1551 GTTTGGTTGG AAGTAATCAA TAGTGGAATC TAGGACAGGT TTGGGGGTAA  
1601 AGTAGCGGGA GTGGTAGGAG AAGGGCTGGG TTATGGTATG GCGGGAGGAG  
1651 TAGTTTACAT AGGGGTCATA GGTGAGGGCT GTGGCCTTTG TTACAAAGTT  
1701 ATCATCTAGA ATAACAGCAC TGGAGCCCAC TCCCCTGTCA CCCTGGGTGA  
1751 TCGGGGAGCA GGGCCAG

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FIG. 3a

FIG. 3	FIG. 3a FIG. 3b
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Sequence of the PCV Imp999 isolate (SEQ ID No. 3)

1 AATTCAACCT TAACCTTTTT TATTCTGTAG TATTCAAAGG GTATAGAGAT  
51 TTTGTTGGTC CCCCCTCCCG GGGGAACAAA GTCGTCAATA TTAAATCTCA  
101 TCATGTCCAC CGCCAGGAG GCGGTTCTGA CTGTGGTAGC CTTGACAGTA  
151 TATCCGAAGG TCGGGGAGAG GCGGGTGTG AAGATGCCAT TTTTCCTTCT  
201 CCAACGGTAG CGGTGGCGGG GGTGGACGAG CCAGGGGCGG CGGCGGAGGA  
251 TCTGGCCAAG ATGGCTGCGG GGGCGGTGTC TTCTTCTGCG GTAACGCCTC  
301 CTTGGATACG TCATAGCTGA AAACGAAAGA AGTGCCTGT AAGTATTACC  
351 AGCGCACTTC GGCAGCGGCA GCACCTCGGC AGCACCTCAG CAGCAACATG  
401 CCCAGCAAGA AGAATGGAAG AAGCGGACCC CAACCACATA AAAGGTGGGT  
451 GTTCACGCTG AATAATCCTT CCGAAGACGA GCGCAAGAAA ATACGGGAGC  
501 TCCCAATCTC CCTATTTGAT TATTTTATTG TTGGCGAGGA GGGTAATGAG  
551 GAAGGACGAA CACCTCACCT CCAGGGGTTC GCTAATTTTG TGAAGAAGCA  
601 AACTTTTAAT AAAGTGAAGT GGTATTTGGG TGCCCGCTGC CACATCGAGA  
651 AAGCCAAAGG AACTGATCAG CAGAATAAAG AATATTGCAG TAAAGAAGCC  
701 AACTTACTTA TTGAATGTGG AGCTCCTCGA TCTCAAGGAC AACGGAGTGA  
751 CCTGTCTACT GCTGTGAGTA CCTTGTGGA GAGCGGGAGT CTGGTGACCG  
801 TTGCAGAGCA GCACCCTGTA ACGTTTGTCA GAAATTTCCG CGGGCTGGCT  
851 GAACTTTTGA AAGTGAGCGG GAAAATGCAG AAGCGTGATT GGAAGACCAA  
901 TGTACACGTC ATTGTGGGGC CACCTGGGTG TGGTAAAAGC AAATGGGCTG  
951 CTAATTTTGC AGACCCGGAA ACCACATACT GGAAACCACC TAGAAACAAG  
1001 TGGTGGGATG GTTACCATGG TGAAGAGTG GTTGTATTG ATGACTTTTA  
1051 TGGCTGGCTG CCGTGGGATG ATCTACTGAG ACTGTGTGAT CGATATCCAT  
1101 TGAAGTAGA GACTAAAGGT GGAAGTGTAC CTTTTTTGGC CCGCAGTATT  
1151 CTGATTACCA GCAATCAGAC CCCGTTGGAA TGGTACTCCT CAACTGCTGT  
1201 CCCAGCTGTA GAAGCTCTCT ATCGGAGGAT TACTTCCTTG GTATTTTGGG

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FIG. 3b

FIG. 3	FIG. 3a
	FIG. 3b

1251 AGAATGCTAC AGAACAATCC ACGGAGGAAG GGGGCCAGTT CGTCACCCTT  
1301 TCCCCCCCAT GCCCTGAATT TCCATATGAA ATAAATTACT GAGTCCTTTT  
1351 TATCACTTCG TAATGGTTTT TATTATTCAT TTAGGGTTTA AGTGGGGGGT  
1401 CTTTAAGATT AAATTCTCTG AATTGTACAT ACATGGTTAC ACGGATATTG  
1451 TAGTCCTGGT CGTATATACT GTTTTCGAAC GCAGTGCCGA GGCCTACGTG  
1501 GTCCACATTT CTAGAGGTTT GTAGCCTCAG CCAAAGCTGA TTCCTTTTGT  
1551 TATTTGTTG GAAGTAATCA ATAGTGGAGT CAAGAACAGG TTTGGGTGTG  
1601 AAGTAACGGG AGTGGTAGGA GAAGGGTTGG GGGATTGTAT GGCGGGAGGA  
1651 GTAGTTTACA TATGGGTCAT AGGTTAGGGC TGTGGCCTTT GTTACAAAGT  
1701 TATCATCTAG AATAACAGCA GTGGAGCCCA CTCCCCTATC ACCCTGGGTG  
1751 ATGGGGGAGC AGGGCCAG

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FIG. 4a

FIG. 4	FIG. 4a FIG. 4b
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Sequence of the PCV Impl010 isolate (SEQ ID No. 4)

1 AATTCACCT TAACCTTTCT TATTCTGTAG TATTCAAAGG GTATAGAGAT  
51 TTGTGTTGGTC CCCCCTCCCG GGGGAACAAA GTCGTCAATT TTAAATCTCA  
101 TCATGTCCAC CGCCCAGGAG GCGGTTGTGA CTGTGGTACG CTTGACAGTA  
151 TATCCGAAGG TCGGGGAGAG GCGGGTGTG AAGATGCCAT TTTTCCTTCT  
201 CCAACGGTAG CGGTGGCGGG GGTGGACGAG CCAGGGGCGG CGGCGGAGGA  
251 TCTGGCCAAG ATGGCTGCGG GGGCGGTGTC TTCTTCTGCG GTAACGCCTC  
301 CTTGGATACG TCATAGCTGA AAACGAAAGA AGTGCCTGT AAGTATTACC  
351 AGCGCACTTC GGCAGCGGCA GCACCTCGGC AGCACCTCAG CAGCAACATG  
401 CCCAGCAAGA AGAATGGAAG AAGCGGACCC CAACCACATA AAAGTGGGT  
451 GTTACGCTG AATAATCCTT CCGAAGACGA GCGCAAGAAA ATACGGGAGC  
501 TCCCAATCTC CCTATTGAT TATTTTATTG TTGGCGAGGA GGGTAATGAG  
551 GAAGGACGAA CACCTCACCT CCAGGGGTTT GCTAATTTTG TGAAGAAGCA  
601 AACTTTTAAT AAAGTGAAGT GGTATTTGGG TGCCCGCTGC CACATCGAGA  
651 AAGCCAAAGG AACTGATCAG CAGAATAAAG AATATTGCAG TAAAGAAGGC  
701 AACTTACTTA TTGAATGTGG AGCTCCTCGA TCTCAAGGAC AACGGAGTGA  
751 CCTGTCTACT GCTGTGAGTA CCTTGTGGA GAGCGGGAGT CTGGTGACCG  
801 TTGCAGAGCA GCACCCTGTA ACGTTTGTCA GAAATTTCCT CGGGCTGGCT  
851 GAACTTTTGA AAGTGAGCGG GAAAATGCAG AAGCGTGATT GGAAGACCAA  
901 TGTACACGTC ATTGTGGGGC CACCTGGGTG TGGTAAAAGC AAATGGGCTG  
951 CTAATTTTGC AGACCCGGAA ACCACATACT GGAAACCACC TAGAAACAAG  
1001 TGGTGGGATG GTTACCATGG TGAAGAAGTG GTTGTATTG ATGACTTTTA  
1051 TGGCTGGCTG CCGTGGGATG ATCTACTGAG ACTGTGTGAT CGATATCCAT  
1101 TGAATGTAGA GACTAAAGGT GGAAGTGTAC CTTTTTGGC CCGCAGTATT  
1151 CTGATTACCA GCAATCAGAC CCCGTTGGAA TGGTACTCCT CAACTGCTGT  
1201 CCCAGCTGTA GAAGCTCTCT ATCGGAGGAT TACTTCCTTG GTATTTTGGA

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FIG. 4b

FIG. 4	FIG. 4a
	FIG. 4b

1251 AGAATGCTAC AGAACAATCC ACGGAGGAAG GGGGCCAGTT CGTCACCCTT  
1301 TCCCCCCCAT GCCCTGAATT TCCATATGAA ATAAATTACT GAGTCTTTTT  
1351 TATCACTTCG TAATGGTTTT TATTATTCAT TTAGGGTTTA AGTGGGGGGT  
1401 CTTTAAGATT AAATCTCTG AATTGTACAT ACATGGTTAC ACGGATATTG  
1451 TAGTCCTGGT CGTATTTACT GTTTTCGAAC GCAGCGCCGA GGCCTACGTG  
1501 GTCCACATTT CCAGAGGTTT GTAGTCTCAG CCAAAGCTGA TTCCTTTTGT  
1551 TATTTGGTTG GAAGTAATCA ATAGTGGAGT CAAGAACAGG TTTGGGTGTG  
1601 AAGTAACGGG AGTGGTAGGA GAAGGGTTGG GGGATTGTAT GGCGGGAGGA  
1651 GTAGTTTACA TATGGGTCAT AGGTTAGGGC TGTGGCCTTT GTTACAAAGT  
1701 TATCATCTAG AATAACAGCA GTGGAGCCCA CTCCCCTATC ACCCTGGGTG  
1751 ATGGGGGAGC AGGGCCAG

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FIG. 5a

FIG. 5	FIG. 5a
	FIG. 5b
	FIG. 5c
	FIG. 5d

CLUSTAL W multiple sequence alignment

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PCVPK-15      AATTCATATTTAGCCTTTCTAATACGGTAGTATTGGAAAGGTAGGGGTAGGGGGTTGGTG
IMP999-ECO    AATTC AACCTTAACCTTTTCTATTCTGTAGTATTCAAAGGGTATAGAGATTTTGTGGTC
IMP1010-ST    AATTC AACCTTAACCTTTCTATTCTGTAGTATTCAAAGGGTATAGAGATTTTGTGGTC
IMP1011-48    AATTC AACCTTAACCTTTCTATTCTGTAGTATTCAAAGGGCACAGAGCGGGGTTTGAG
IMP1011-48    AATTC AACCTTAACCTTTCTATTCTGTAGTATTCAAAGGGCACAGAGCGGGGTTTGAG
*****      *** ***** * * * ***** * * * * *      *** *

PCVPK-15      CCGCCTGAGGGGGGAGGAAC TGGCCGATGTTGAATTTGAGGTAGTTAACATTCCAAGAT
IMP999-ECO    CCCCCCTCCGGGGGAACAAAGTCGTCATATTAATCTCATCATGTCCACCGCCCAGGAG
IMP1010-ST    CCCCCCTCCGGGGGAACAAAGTCGTCATTTTAAATCTCATCATGTCCACCGCCCAGGAG
IMP1011-48    CCCCCCTCCGGGGGAAGAAAGTCATTAATATTGAATCTCATCATGTCCACCGCCCAGGAG
IMP1011-48    CCCCCCTCCGGGGGAAGAAAGTCATTAATATTGAATCTCATCATGTCCACCGCCCAGGAG
** ** *      ***** * * * *      ** * * * * * * *      ** * *      *** **

PCVPK-15      GGC--TGCGAGTATCCTCCTTT-ATGGTGAGTACAAATTCTGTAGAAAGGCGGGAATTG
IMP999-ECO    GGC GTTCTGACTGTGGTAGCCTTGACAGTATATCCGAAGGTGCGGGAGAGGCGGGTGTG
IMP1010-ST    GGC GTTGTGACTGTGGTAGCCTTGACAGTATATCCGAAGGTGCGGGAGAGGCGGGTGTG
IMP1011-48    GGC GTTCTGACTGTGGTTTCGCTTGACAGTATATCCGAAGGTGCGGGAGAGGCGGGTGTG
IMP1011-48    GGC GTTTTGACTGTGGTTTCGCTTGACAGTATATCCGAAGGTGCGGGAGAGGCGGGTGTG
*** *      * * * * *      * * * *      * * * *      ** ***** ***

PCVPK-15      AAGATACCCGTCCTTTTCGGCGCCATCTGTAACGGTTTCTGAAGGCGGGGTGTGCCAAATAT
IMP999-ECO    AAGATGCCATTTTTCCTTCTCCAACGGTAGCGGTGGC-GGGGGTGGA-CGAGCCAGGGGC
IMP1010-ST    AAGATGCCATTTTTCCTTCTCCAACGGTAGCGGTGGC-GGGGGTGGA-CGAGCCAGGGGC
IMP1011-48    AAGATGCCATTTTTCCTTCTCCAACGGTAGCGGTGGC-GGGGGTGGA-CGAGCCAGGGGC
IMP1011-48    AAGATGCCATTTTTCCTTCTCCAACGGTAGCGGTGGC-GGGGGTGGA-CGAGCCAGGGGC
***** ** * * * * * * * * * * * * * * * * * * * * * * * *

PCVPK-15      GGTCTTCTCCGGAGGATGTTTCCAAGATGGCTGCGGGGGCGGGTCTTCTTCTGCGGTAA
IMP999-ECO    GG----CGGCGGAGGATCTGGCCAAGATGGCTGCGGGGGCGGTGTCTTCTTCTGCGGTAA
IMP1010-ST    GG----CGGCGGAGGATCTGGCCAAGATGGCTGCGGGGGCGGTGTCTTCTTCTGCGGTAA
IMP1011-48    GG----CGGCGGAGGATCTGGCCAAGATGGCTGCGGGGGCGGTGTCTTCTTCTGCGGTAA
IMP1011-48    GG----CGGCGGAGGATCTGGCCAAGATGGCTGCGGGGGCGGTGTCTTCTTCTGCGGTAA
** *      ***** * ***** ***** ***** ***** *****

PCVPK-15      CGCCTCCTTGCCACGTCATCCTATAAAAGTGAAAGAAGTGCCTGCTGTAGTATTACCA
IMP999-ECO    CGCCTCCTTGATACGTCATAGC-TGAAAACGAAAGAAGTGCCTGTA--AGTATTACCA
IMP1010-ST    CGCCTCCTTGATACGTCATAGC-TGAAAACGAAAGAAGTGCCTGTA--AGTATTACCA
IMP1011-48    CGCCTCCTTGATACGTCATATC-TGAAAACGAAAGAAGTGCCTGTA--AGTATTACCA
IMP1011-48    CGCCTCCTTGATACGTCATATC-TGAAAACGAAAGAAGTGCCTGTA--AGTATTACCA
***** ** * * * * * * * * * * * * * * * * * * * * * * * *

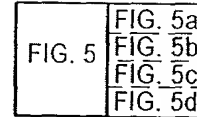
PCVPK-15      GCGCACTTCGGCAGCGGCAGCACCTCGGCAGCG--TCAGTG--AAAATGCCAAGCAAGAA
IMP999-ECO    GCGCACTTCGGCAGCGGCAGCACCTCGGCAGCACCTCAGCAGCAACATGCCAGCAAGAA
IMP1010-ST    GCGCACTTCGGCAGCGGCAGCACCTCGGCAGCACCTCAGCAGCAACATGCCAGCAAGAA
IMP1011-48    GCGCACTTCGGCAGCGGCAGCACCTCGGCAGCACCTCAGCAGCAACATGCCAGCAAGAA
IMP1011-48    GCGCACTTCGGCAGCGGCAGCACCTCGGCAGCACCTCAGCAGCAACATGCCAGCAAGAA
***** ** * * * * * * * * * * * * * * * * * * * * * * * *

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FIG. 5c



PCVPK-15	GAAGACAGCTGTACACGTCATAGTGGGCCCCCGGTTGTGGGAAGAGCCAGTGGGCCCCG
IMP999-ECO	GAAGACCAATGTACACGTCATTGTGGGGCCACCTGGGTGTGGTAAAAGCAAATGGGCTGC
IMP1010-ST	GAAGACCAATGTACACGTCATTGTGGGGCCACCTGGGTGTGGTAAAAGCAAATGGGCTGC
IMP1011-48	GAAGACTAATGTACACGTCATTGTGGGGCCACCTGGGTGTGGTAAAAGCAAATGGGCTGC
IMP1011-48	GAAGACTAATGTACACGTCATTGTGGGGCCACCTGGGTGTGGTAAAAGCAAATGGGCTGC
	*****
PCVPK-15	TAATTTTGCTGAGCCTAGGGACACCTACTGGAAGCCTAGTAGAAATAAGTGGTGGGATGG
IMP999-ECO	TAATTTTGCAGACCCGAAACCACATACTGGAACCACCTAGAAACAAGTGGTGGGATGG
IMP1010-ST	TAATTTTGCAGACCCGAAACCACATACTGGAACCACCTAGAAACAAGTGGTGGGATGG
IMP1011-48	TAATTTTGCAGACCCGAAACCACATACTGGAACCACCTAGAAACAAGTGGTGGGATGG
IMP1011-48	TAATTTTGCAGACCCGAAACCACATACTGGAACCACCTAGAAACAAGTGGTGGGATGG
	*****
PCVPK-15	ATATCATGGAGAAGAAGTTGTTGTTTGGATGATTTTATGGCTGGTTACCTTGGGATGA
IMP999-ECO	TTACCATGGTGAAGAAGTGGTTGTTATTGATGACTTTTATGGCTGGCTGCCGTGGGATGA
IMP1010-ST	TTACCATGGTGAAGAAGTGGTTGTTATTGATGACTTTTATGGCTGGCTGCCGTGGGATGA
IMP1011-48	TTACCATGGTGAAGAAGTGGTTGTTATTGATGACTTTTATGGCTGGCTGCCGTGGGATGA
IMP1011-48	TTACCATGGTGAAGAAGTGGTTGTTATTGATGACTTTTATGGCTGGCTGCCGTGGGATGA
	*****
PCVPK-15	TCTACTGAGACTGTGTGACCGGTATCCATTGACTGTAGAGACTAAAGGGGTACTGTTC
IMP999-ECO	TCTACTGAGACTGTGTGATCGATATCCATTGACTGTAGAGACTAAAGGTGGAACGTATACC
IMP1010-ST	TCTACTGAGACTGTGTGATCGATATCCATTGACTGTAGAGACTAAAGGTGGAACGTATACC
IMP1011-48	TCTACTGAGACTGTGTGATCGATATCCATTGACTGTAGAGACTAAAGGTGGAACGTATACC
IMP1011-48	TCTACTGAGACTGTGTGATCGATATCCATTGACTGTAGAGACTAAAGGTGGAACGTATACC
	*****
PCVPK-15	TTTTTTGGCCCCGAGTATTTTGATTACCAGCAATCAGGCCCCCAGGAATGGTACTCCTC
IMP999-ECO	TTTTTTGGCCCCGAGTATTTCTGATTACCAGCAATCAGACCCCGTTGGAATGGTACTCCTC
IMP1010-ST	TTTTTTGGCCCCGAGTATTTCTGATTACCAGCAATCAGACCCCGTTGGAATGGTACTCCTC
IMP1011-48	TTTTTTGGCCCCGAGTATTTCTGATTACCAGCAATCAGACCCCGTTGGAATGGTACTCCTC
IMP1011-48	TTTTTTGGCCCCGAGTATTTCTGATTACCAGCAATCAGACCCCGTTGGAATGGTACTCCTC
	*****
PCVPK-15	AACTGCTGTCCAGCTGTAGAAGCTCTCTATCGGAGGATTACTACTTTGCAATTTTGGAA
IMP999-ECO	AACTGCTGTCCAGCTGTAGAAGCTCTCTATCGGAGGATTACTTCCTTGGTATTTTGGAA
IMP1010-ST	AACTGCTGTCCAGCTGTAGAAGCTCTCTATCGGAGGATTACTTCCTTGGTATTTTGGAA
IMP1011-48	AACTGCTGTCCAGCTGTAGAAGCTCTTTATCGGAGGATTACTTCCTTGGTATTTTGGAA
IMP1011-48	AACTGCTGTCCAGCTGTAGAAGCTCTTTATCGGAGGATTACTTCCTTGGTATTTTGGAA
	*****
PCVPK-15	GACTGCTGGAGAACAAATCCACGGAGGTACCCGAAGGCCGATTTGAAGCAGTGGACCCACC
IMP999-ECO	GAATGCTACAGAACAAATCCACGGAGGAA--GGGGGCCAGTTCGTACCCTTTCCCCCCC
IMP1010-ST	GAATGCTACAGAACAAATCCACGGAGGAA--GGGGGCCAGTTCGTACCCTTTCCCCCCC
IMP1011-48	GAATGCTACAGAACAAATCCACGGAGGAA--GGGGGCCAGTTCGTACCCTTTCCCCCCC
IMP1011-48	GAATGCTACAGAACAAATCCACGGAGGAA--GGGGGCCAGTTCGTACCCTTTCCCCCCC
	*****
PCVPK-15	CTGTCCCTTTTCCCATATAAAATAAATTACTGAGTCTTTTTTGTATTACATCGTAATG
IMP999-ECO	ATGCCCTGAATTTCCCATATGAAATAAATTACTGAGTCTTTTT--TATCACTTCGTAATG
IMP1010-ST	ATGCCCTGAATTTCCCATATGAAATAAATTACTGAGTCTTTTT--TATCACTTCGTAATG
IMP1011-48	ATGCCCTGAATTTCCCATATGAAATAAATTACTGAGTCTTTTT--TATCACTTCGTAATG
IMP1011-48	ATGCCCTGAATTTCCCATATGAAATAAATTACTGAGTCTTTTT--TATCACTTCGTAATG
	*****

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FIG. 5d

FIG. 5	FIG. 5a
	FIG. 5b
	FIG. 5c
	FIG. 5d

Parameter	Value
Age (years)	45.2
Weight (kg)	70.5
Height (cm)	175.3
BMI (kg/m <sup>2</sup> )	22.8
Heart rate (b/min)	72.1
Blood pressure (mmHg)	120/80
Glucose (mmol/L)	5.5
Cholesterol (mmol/L)	5.2
Triglycerides (mmol/L)	1.5
HDL (mmol/L)	1.2
LDL (mmol/L)	3.5
Urea (mmol/L)	5.8
Creatinine (mmol/L)	0.9
Albumin (g/L)	35.2
Haemoglobin (g/L)	14.5
Haematocrit (%)	42.5
Red blood cells (10 <sup>12</sup> /L)	4.5
White blood cells (10 <sup>9</sup> /L)	7.2
Neutrophils (%)	65.2
Lymphocytes (%)	28.5
Monocytes (%)	4.8
Eosinophils (%)	0.5
Basophils (%)	0.2
Platelets (10 <sup>9</sup> /L)	185
Prothrombin time (s)	12.5
Partial thromboplastin time (s)	32.1
Fibrinogen (g/L)	3.5
D-dimer (ng/mL)	0.5
C-reactive protein (mg/L)	1.2
Interleukin-6 (pg/mL)	0.8
Tumor necrosis factor- $\alpha$ (pg/mL)	0.5
Interleukin-10 (pg/mL)	0.3
Interleukin-18 (pg/mL)	0.2
Interleukin-8 (pg/mL)	0.1
Interleukin-12 (pg/mL)	0.1
Interleukin-17 (pg/mL)	0.1
Interleukin-21 (pg/mL)	0.1
Interleukin-22 (pg/mL)	0.1
Interleukin-23 (pg/mL)	0.1
Interleukin-24 (pg/mL)	0.1
Interleukin-25 (pg/mL)	0.1
Interleukin-26 (pg/mL)	0.1
Interleukin-27 (pg/mL)	0.1
Interleukin-28 (pg/mL)	0.1
Interleukin-29 (pg/mL)	0.1
Interleukin-30 (pg/mL)	0.1
Interleukin-31 (pg/mL)	0.1
Interleukin-32 (pg/mL)	0.1
Interleukin-33 (pg/mL)	0.1
Interleukin-34 (pg/mL)	0.1
Interleukin-35 (pg/mL)	0.1
Interleukin-36 (pg/mL)	0.1
Interleukin-37 (pg/mL)	0.1
Interleukin-38 (pg/mL)	0.1
Interleukin-39 (pg/mL)	0.1
Interleukin-40 (pg/mL)	0.1
Interleukin-41 (pg/mL)	0.1
Interleukin-42 (pg/mL)	0.1
Interleukin-43 (pg/mL)	0.1
Interleukin-44 (pg/mL)	0.1
Interleukin-45 (pg/mL)	0.1
Interleukin-46 (pg/mL)	0.1
Interleukin-47 (pg/mL)	0.1
Interleukin-48 (pg/mL)	0.1
Interleukin-49 (pg/mL)	0.1
Interleukin-50 (pg/mL)	0.1
Interleukin-51 (pg/mL)	0.1
Interleukin-52 (pg/mL)	0.1
Interleukin-53 (pg/mL)	0.1
Interleukin-54 (pg/mL)	0.1
Interleukin-55 (pg/mL)	0.1
Interleukin-56 (pg/mL)	0.1
Interleukin-57 (pg/mL)	0.1
Interleukin-58 (pg/mL)	0.1
Interleukin-59 (pg/mL)	0.1
Interleukin-60 (pg/mL)	0.1
Interleukin-61 (pg/mL)	0.1
Interleukin-62 (pg/mL)	0.1
Interleukin-63 (pg/mL)	0.1
Interleukin-64 (pg/mL)	0.1
Interleukin-65 (pg/mL)	0.1
Interleukin-66 (pg/mL)	0.1
Interleukin-67 (pg/mL)	0.1
Interleukin-68 (pg/mL)	0.1
Interleukin-69 (pg/mL)	0.1
Interleukin-70 (pg/mL)	0.1
Interleukin-71 (pg/mL)	0.1
Interleukin-72 (pg/mL)	0.1
Interleukin-73 (pg/mL)	0.1
Interleukin-74 (pg/mL)	0.1
Interleukin-75 (pg/mL)	0.1
Interleukin-76 (pg/mL)	0.1
Interleukin-77 (pg/mL)	0.1
Interleukin-78 (pg/mL)	0.1
Interleukin-79 (pg/mL)	0.1
Interleukin-80 (pg/mL)	0.1
Interleukin-81 (pg/mL)	0.1
Interleukin-82 (pg/mL)	0.1
Interleukin-83 (pg/mL)	0.1
Interleukin-84 (pg/mL)	0.1
Interleukin-85 (pg/mL)	0.1
Interleukin-86 (pg/mL)	0.1
Interleukin-87 (pg/mL)	0.1
Interleukin-88 (pg/mL)	0.1
Interleukin-89 (pg/mL)	0.1
Interleukin-90 (pg/mL)	0.1
Interleukin-91 (pg/mL)	0.1
Interleukin-92 (pg/mL)	0.1
Interleukin-93 (pg/mL)	0.1
Interleukin-94 (pg/mL)	0.1
Interleukin-95 (pg/mL)	0.1
Interleukin-96 (pg/mL)	0.1
Interleukin-97 (pg/mL)	0.1
Interleukin-98 (pg/mL)	0.1
Interleukin-99 (pg/mL)	0.1
Interleukin-100 (pg/mL)	0.1